

Sinopec Corp.

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## Subsidiaries Information



### SINOPEC Qilu Petrochemical Co.,Ltd.

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Qilu Petrochemical Co., Ltd. has been certified as high-tech enterprise. There are a lot of special technical personnel in each department, like R&D, production, sales & service. The company has powerful capability in development and creation. The Resin Research Institute has strong capability in the development of the resin compound, its product, like the pipe coating compound, has filled the national blank, largely used in the "Conveying the West Gas to the East" project. This company consists of more than 20 sets of production plants, and most of the processes are imported advanced process; the statues of the main plants are as follow:

#### Ethylene Plant,

This plant uses ABB Lummus cracking separation technology. The whole process controlled by DCS. The present capacity is 450,000 tons. Now the company is on the 2<sup>nd</sup> stage of the ethylene revamping work. After revamping, the ethylene capacity up to 720,000T/Y.

#### Aromatics plant

This plant uses the process of American UOP. Now the production capacity is P-xylene 44,000 t/y, O-xylene 40,000 tons, pure benzene 142,300tons.

#### PA Plant

This plant uses German BASF fixed bed gas phase process. Its design capacity is 140,000 tons of PA.

#### HDPE PLANT

This plant uses the UNIPOL technology of UCC America. Its design capacity is 140,000 tons and there are 74 grades of resins that can be produced with S, M, and F catalysts

#### LLDPE PLANT

This plant uses the process same as HDPE plant, with the design capacity of 60,000 tons. More than 50 grades of products can be produced in this plant. After the completion stage of the ethylene revamping, the production capacity will reach 120,000T/Y.

#### LDPE PLANT

This plant uses polymerization process imported from Holland DSM STAMICARB pulse tubular reaction process to produce PE pellet products, with the capacity of 100,000 tons.

#### Styrene plant

This plant uses Monsanto / LUMMUMS' direct reaction process, its design capacity is 200,000 tons. After the completion of 2<sup>nd</sup> stage of the ethylene revamping, the production will reach 200,000T/Y.

#### **Polystyrene Plant**

It is a plant using TEC-MTC technology, the design capacity is 36,000 tons, it can produce GPPS, HIPS products.

#### **Polypropylene Plant**

This plant uses Mentel's liquid phase tubular reactor plus gas phase fluidized bed process, its design capacity is 70,000 tons, in which 49 grades of homo-polymer and copolymer products can be produced. After adding additives, 110 grades of pellets can be produced.

#### **VCM Plant**

Mitsui Japan technology, an equilibrium oxy-chlorination process, present capacity is 234,000 t/y. After the completion of 2<sup>nd</sup> stage of the ethylene revamping, the production capacity will be 610,000T/Y.

#### **PVC Plant**

This plant uses the Japanese SHIETSU batch suspension polymerization process, current capacity is 230,000 t/y. After the completion of 2<sup>nd</sup> stage of the ethylene revamping, the production capacity will be 600,000T/Y.

#### **Caustic Soda Plants**

One set of plant is a diaphragm electrolysis process imported from Chlorine Engineering Japan; its design capacity is 200,000 tons caustic soda, 183,000 tons of chlorine and 1,252.5 tons of hydrogen.

Another one is a membrane caustic soda plant, with ion membrane electrolysis technology imported from DENORA Italy. The capacity of it is 50,000 tons caustic soda, 44,400 tons of chlorine and 1,252.5 tons of hydrogen. After the completion of 2<sup>nd</sup> stage of the ethylene revamping, the caustic soda capacity will be 450,000T/Y.

#### **SBR Rubber Plant**

This plant uses the low temperature solution polymerization process from Zeon Japan, its design capacity is 130,000 t/y.

#### **BR Rubber Plant**

This plant uses Chinese domestic technology, with design capacity of 40,000 tons.

#### **Butadiene Extraction Plants**

The first set using Japanese Zeon's GPB process, the design capacity is to treat 107,400 t/y, producing butadiene by 54,000 t/y; another set design capacity to treat 107,400 t/y, producing butadiene of 54,000 t/y.

#### **MTBE Plant**

Using the technology developed by Qilu Petrochemical Corporation, with a design capacity of 40,000 tons /year.

Butene-1

Using the catalytic distillation process of USA CR / L Co. and the super fractionation of Japanese Zeon Co. The design capacity is 15,000 tons.

In high reputation and good quality of synthetic resin, synthetic rubber, chloro-alkanes and basic organics, the main products are ethylene, propylene, PE, PP, PVC, BF styrene, PS, PA, pure benzene, O-xylene, caustic soda, epichlorohydrin, MTBE, and in 2001, the company produced 555,000 tons of ethylene, 744,500 tons of synthetic rubber, 176,300 tons of synthetic rubber, 248,000 tons of caustic soda and 273,100 tons of

HDPE has 28 grades of products coming from the following four groups, like ethylene polymerization, propylene co-polymerization, butene-1 co-polymerization and hexene polymerization. The output in the year of 2001 was 169,100 tons; the main grades are DGD-6098, DGD-2480, and DMDY-1158.

LLDPE is suitable to blow molding, extrusion, rotating molding, injection molding. there are 48 grades for different applications. 71,700 tons of LLDPE was produced mainly DFDA-7042, DFDA-7059.

PP has 40 grades of basic resins, the production in 2001 was 86,500 tons, The main grades were T30S, T36F.

LDPE was output 167,800 tons in 2001 mainly used for agriculture films (green house mulch), heavy duty packing film, extraction film, transparent film, insulation and jacket wire and cable, it can also be used for injection molding, extruding, foaming and so on. The output in 1999 was 130,068 tons.

PVC, There are mainly three types: S-700, S-1000, S1300, In 2001, 233,800 tons produced, with low VCM monomer content (less than 5ppm). It reaches the food and medicine standards and becomes the famous brand, inspection free commodity.

BR: BR9000 widely used for tyre, hose, sealing ring, sole of shoes and other products produced by 46,100 tons in 2001.

SBR: There are three grades of styrene butadiene rubbers; SBR-1500, SBR-1502, SBR-1712. The production in 2001 was 130,200 tons; these products have been sold in China, and exported to America, Korea as well as South East of Asia.

Liquid sodium hydroxide: (Diaphragm caustic soda), with a production by 247,000 tons in 2001, it is widely used in handmade fiber, paper industry, printing, soap making, pharmaceutical, textile, and glass enamel and metal parts.

#### Special Compound

##### 1. One Layer HDPE Car Fuel Tank:

This product has obtained the safety certificate from German TUUV authority. It has passed all the tests for the racecar by the first Automobile Co. LTD.

##### □, Pipe coating compound series :

The black pipe coating compound (QLJ-1) is widely used in the national key project "Shanxi -Beijing Natural Gas Pipe Line" project, "Se Lan- Ning " "West gas west to project, meanwhile large amount of this product has been exported to Middle East.

##### 3. Cable Insulation and jacket Compound:

HDPE telecommunication cable insulation compound is suitable to the fabrication of entire-plastic municipal telephone cable with the speed of 2000 meters/ min. The PVC telephone cable insulation compound is suitable to the fabrication of the municipal cable to be foamed by 30%~ 35% with the speed higher than 1800 meters / min.

##### 4. PVC Compound for Construction:

It is of the properties that all comply with the American ASTM F891 specification. product is in the leading position in the domestic market.

In line with the production development, Qilu Petrochemical Co. Ltd. paid much at the environment protection, strictly following up the national rules and regulations, complete protection system established. Environment protection committee or dept set up not only in the company, but also on the subsidiaries, as well as the monitoring organizations, At the same time, they have issued the relevant rules and regulations protecting the environment. The total assets of environmental facilities are 560 million.

This company strictly executes the relevant government policy, put much force in production activity, and achieved remarkable results. The BR Rubber plant and SI plant of the Rubber complex have appraised as the "example plants". All of the four Rubber, plastics, olefins and chloro-alkali have obtained the certificate of ISO 14001 environment management.

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Add: No. A6 Hui xin East St. Chaoyang District, Beijing, China Postcode: 100029 E-mail: [webmaster@sinopec.com](mailto:webmaster@sinopec.com)  
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